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D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

School : School of Engineering

Program: B.Tech. Biotechnology (Medical)

Course: Immunology and cancer biology

Course Code: BTE308

Semester: V

Max Marks: 20

Duration (mins) : 60

Note: Attempt all questions. Each carry one mark.

Q1. Which is a characteristic of adaptive Immunity?

- a) Antigenic non-specificity
- b) Diversity
- c) Immunologic memory
- d) All of above

Q2. Which are the mediators of inflammatory response?

- a) Histamin
- b) kinins
- c) Acute phase proteins
- d) All of above

Q3. Which of these is a B-Cell receptor?

- a) MHC-I
- b) MHC-II
- c) Membrane bound antibody
- d) None of above

Q4. CD-4 is present on what type of cells?

- a) T-cytotoxic
- b) T-helper
- c) B-cell
- d) Monocyte

Q5. Which of these are antigen presenting cells?

- a) B-cells
- b) Macrophages
- c) Dendritic
- d) All of above

Q6. Epitopes are:

- a) Antigenic determinant
- b) antibody determinant
- c) Both a and b
- d) None of above

Q7. T-cell receptors recognize?

- a) MHC bound molecules
- b) antibody bound molecules
- c) Unbound molecules
- d) All of above

Q8. Which of these is not a consequence of immune dysfunction?

- a) Graft rejection
- b) Immunodeficiency
- c) Allergy and asthma
- d) Cancer

Q9. Haematopoiesis is?

- a) Liver cell formation
- b) Blood cell formation
- c) RBC formation
- d) Lymphocyte formation

Q10. Plasma cells are?

- a) Effector T-cytotoxic cells
- b) Effector T-helper cells
- c) Effector B- cells
- d) All of above

Q11. Cells involved in allergy:

- a) Neutrophils
- b) Basophils
- c) Eosinophils
- d) All of above

Q12. Which of these are non-phagocytic?

- a) Neutrophils
- b) Basophils
- c) Eosinophils
- d) All of above

Q13. Molecules that have antigenicity but not immunogenicity:

- a) Antigens
- b) Complement
- c) Hapten
- d) None of above

Q14. Which of these are effects of adjuvants?

- a) Antigenic persistence is prolonged
- b) Local inflammation is increased
- c) Non-specific proliferation of lymphocyte stimulated
- d) Co-stimulatory signal enhanced
- e) All of above

Q15. Antigen binding site of antibody is present in the region:

- a) CDR
- b) CL
- c) CH
- d) All of above

Q16. Which immunoglobulin can cross placenta?

- a) Ig M
- b) Ig G
- c) Ig D
- d) Ig E

Q17. Which antibody have mucosal transport?

- a) Ig A
- b) Ig M
- c) Ig E
- d) a & b
- e) a & c

Q18. Technology used to generate monoclonal antibody?

- a) PCR
- b) ELISA
- c) Hybridoma
- d) Blotting

Q19. Which immunoglobulin activates classical pathway of complement system?

- a) Ig G
- b) Ig D
- c) Ig M
- d) a & c
- e) a & b

Q20. Which type of hypersensitivity is mediated by Ig E?

- a) Type-I
- b) Type-II
- c) Type-III
- d) Type-IV